For exercise 1:

**GGG ATG AAT AAG GCA TAT GCA TCA GGG GCT GTT GCC AAT GTG CAT TAG CTG TTT GCA GCC TCA CCT TCT TTC ATG GAG TTT AAG ATA**

For exercise 4:

Human Dp 116 Dystrophin protein

1 mlhrktyhvk dlqgeieaht dvyhnldens qkilrslegs ddavllqrrl dnmnfkwsel

61 rkkslnirsh leassdqwkr lhlslqellv wlqlkddels rqapiggdfp avqkqndvhr

121 afkrelktke pvimstletv riflteqple gleklyqepr elppeeraqn vtrllrkqae

181 evntewekln lhsadwqrki detlerlqel qeatdeldlk lrqaevikgs wqpvgdllid

241 slqdhlekvk alrgeiaplk envshvndla rqlttlgiql spynlstled lntrwkllqv

301 avedrvrqlh eahrdfgpas qhflstsvqg pweraispnk vpyyinhetq ttcwdhpkmt

361 elyqsladln nvrfsayrta mklrrlqkal cldllslsaa cdaldqhnlk qndqpmdilq

421 iinclttiyd rleqehnnlv nvplcvdmcl nwllnvydtg rtgrirvlsf ktgiislcka

481 hledkyrylf kqvasstgfc dqrrlglllh dsiqiprqlg evasfggsni epsvrscfqf

541 annkpeieaa lfldwmrlep qsmvwlpvlh rvaaaetakh qakcnickec piigfryrsl

601 khfnydicqs cffsgrvakg hkmhypmvey ctpttsgedv rdfakvlknk frtkryfakh

661 prmgylpvqt vlegdnmetp vtlinfwpvd sapasspqls hddthsrieh yasrlaemen

721 sngsylndsi spnesiddeh lliqhycqsl nqdsplsqpr spaqilisle seergeleri

781 ladleeenrn lqaeydrlkq qhehkglspl psppemmpts pqsprdaeli aeakllrqhk

841 grlearmqil edhnkqlesq lhrlrqlleq pqaeakvngt tvsspstslq rsdssqpmll

901 rvvgsqtsds mgeedllspp qdtstgleev meqlnnsfps srgrntpgkp mredtm

For Exercise 5

Dp 427m isoform Human Dystrophin protein (NP\_003997.1)

1 mlwweevedc yeredvqkkt ftkwvnaqfs kfgkqhienl fsdlqdgrrl ldllegltgq

61 klpkekgstr vhalnnvnka lrvlqnnnvd lvnigstdiv dgnhkltlgl iwniilhwqv

121 knvmknimag lqqtnsekil lswvrqstrn ypqvnvinft tswsdglaln alihshrpdl

181 fdwnsvvcqq satqrlehaf niaryqlgie klldpedvdt typdkksilm yitslfqvlp

241 qqvsieaiqe vemlprppkv tkeehfqlhh qmhysqqitv slaqgyerts spkprfksya

301 ytqaayvtts dptrspfpsq hleapedksf gsslmesevn ldryqtalee vlswllsaed

361 tlqaqgeisn dvevvkdqfh thegymmdlt ahqgrvgnil qlgskligtg klsedeetev

421 qeqmnllnsr weclrvasme kqsnlhrvlm dlqnqklkel ndwltkteer trkmeeeplg

481 pdledlkrqv qqhkvlqedl eqeqvrvnsl thmvvvvdes sgdhataale eqlkvlgdrw

541 anicrwtedr wvllqdillk wqrlteeqcl fsawlseked avnkihttgf kdqnemlssl

601 qklavlkadl ekkkqsmgkl yslkqdllst lknksvtqkt eawldnfarc wdnlvqklek

661 staqisqavt ttqpsltqtt vmetvttvtt reqilvkhaq eelpppppqk krqitvdsei

721 rkrldvdite lhswitrsea vlqspefaif rkegnfsdlk ekvnaierek aekfrklqda

781 srsaqalveq mvnegvnads ikqaseqlns rwiefcqlls erlnwleyqn niiafynqlq

841 qleqmtttae nwlkiqpttp septaiksql kickdevnrl sglqpqierl kiqsialkek

901 gqgpmfldad fvaftnhfkq vfsdvqarek elqtifdtlp pmryqetmsa irtwvqqset

961 klsipqlsvt dyeimeqrlg elqalqsslq eqqsglyyls ttvkemskka pseisrkyqs

1021 efeeiegrwk klssqlvehc qkleeqmnkl rkiqnhiqtl kkwmaevdvf lkeewpalgd

1081 seilkkqlkq crllvsdiqt iqpslnsvne ggqkikneae pefasrlete lkelntqwdh

1141 mcqqvyarke alkgglektv slqkdlsemh ewmtqaeeey lerdfeyktp delqkaveem

1201 krakeeaqqk eakvklltes vnsviaqapp vaqealkkel etlttnyqwl ctrlngkckt

1261 leevwacwhe llsylekank wlnevefklk ttenipggae eisevldsle nlmrhsednp

1321 nqirilaqtl tdggvmdeli neeletfnsr wrelheeavr rqklleqsiq saqetekslh

1381 liqesltfid kqlaayiadk vdaaqmpqea qkiqsdltsh eisleemkkh nqgkeaaqrv

1441 lsqidvaqkk lqdvsmkfrl fqkpanfeqr lqeskmilde vkmhlpalet ksveqevvqs

1501 qlnhcvnlyk slsevkseve mviktgrqiv qkkqtenpke ldervtalkl hynelgakvt

1561 erkqqlekcl klsrkmrkem nvltewlaat dmeltkrsav egmpsnldse vawgkatqke

1621 iekqkvhlks itevgealkt vlgkketlve dklsllnsnw iavtsraeew lnllleyqkh

1681 metfdqnvdh itkwiiqadt lldesekkkp qqkedvlkrl kaelndirpk vdstrdqaan

1741 lmanrgdhcr klvepqisel nhrfaaishr iktgkasipl keleqfnsdi qkllepleae

1801 iqqgvnlkee dfnkdmnedn egtvkellqr gdnlqqritd erkreeikik qqllqtkhna

1861 lkdlrsqrrk kaleishqwy qykrqaddll kclddiekkl aslpeprder kikeidrelq

1921 kkkeelnavr rqaeglsedg aamaveptqi qlskrwreie skfaqfrrln faqihtvree

1981 tmmvmtedmp leisyvpsty lteithvsqa lleveqllna pdlcakdfed lfkqeeslkn

2041 ikdslqqssg ridiihskkt aalqsatpve rvklqealsq ldfqwekvnk mykdrqgrfd

2101 rsvekwrrfh ydikifnqwl teaeqflrkt qipenwehak ykwylkelqd gigqrqtvvr

2161 tlnatgeeii qqssktdasi lqeklgslnl rwqevckqls drkkrleeqk nilsefqrdl

2221 nefvlwleea dniasiplep gkeqqlkekl eqvkllveel plrqgilkql netggpvlvs

2281 apispeeqdk lenklkqtnl qwikvsralp ekqgeieaqi kdlgqlekkl edleeqlnhl

2341 llwlspirnq leiynqpnqe gpfdvqetei avqakqpdve eilskgqhly kekpatqpvk

2401 rkledlssew kavnrllqel rakqpdlapg lttigasptq tvtlvtqpvv tketaiskle

2461 mpsslmlevp aladfnrawt eltdwlslld qviksqrvmv gdledinemi ikqkatmqdl

2521 eqrrpqleel itaaqnlknk tsnqeartii tdrieriqnq wdevqehlqn rrqqlnemlk

2581 dstqwleake eaeqvlgqar akleswkegp ytvdaiqkki tetkqlakdl rqwqtnvdva

2641 ndlalkllrd ysaddtrkvh miteninasw rsihkrvser eaaleethrl lqqfpldlek

2701 flawlteaet tanvlqdatr kerlledskg vkelmkqwqd lqgeieahtd vyhnldensq

2761 kilrslegsd davllqrrld nmnfkwselr kkslnirshl eassdqwkrl hlslqellvw

2821 lqlkddelsr qapiggdfpa vqkqndvhra fkrelktkep vimstletvr iflteqpleg

2881 leklyqepre lppeeraqnv trllrkqaee vnteweklnl hsadwqrkid etlerlqelq

2941 eatdeldlkl rqaevikgsw qpvgdllids lqdhlekvka lrgeiaplke nvshvndlar

3001 qlttlgiqls pynlstledl ntrwkllqva vedrvrqlhe ahrdfgpasq hflstsvqgp

3061 weraispnkv pyyinhetqt tcwdhpkmte lyqsladlnn vrfsayrtam klrrlqkalc

3121 ldllslsaac daldqhnlkq ndqpmdilqi inclttiydr leqehnnlvn vplcvdmcln

3181 wllnvydtgr tgrirvlsfk tgiislckah ledkyrylfk qvasstgfcd qrrlglllhd

3241 siqiprqlge vasfggsnie psvrscfqfa nnkpeieaal fldwmrlepq smvwlpvlhr

3301 vaaaetakhq akcnickecp iigfryrslk hfnydicqsc ffsgrvakgh kmhypmveyc

3361 tpttsgedvr dfakvlknkf rtkryfakhp rmgylpvqtv legdnmetpv tlinfwpvds

3421 apasspqlsh ddthsriehy asrlaemens ngsylndsis pnesiddehl liqhycqsln

3481 qdsplsqprs paqilisles eergeleril adleeenrnl qaeydrlkqq hehkglsplp

3541 sppemmptsp qsprdaelia eakllrqhkg rlearmqile dhnkqlesql hrlrqlleqp

3601 qaeakvngtt vsspstslqr sdssqpmllr vvgsqtsdsm geedllsppq dtstgleevm

3661 eqlnnsfpss rgrntpgkpm redtm

Chicken (Gallus gallus) dystrophin protein (NP\_990630.1)

1 msahvlwyee veddyeredv qkktftkwin aqfakcgrrc iedlfndfrd grkllellec

61 ltgqkiakek gstrvhalnn vnkalqilqr nnvdlvnigs sdivdgnhkl tlgliwniil

121 hwqvkdvmkn imaglqqtns ekillswvrq strnypqvnv inftsswsdg lafnallhsh

181 rpdlfdwnav asqqspvqrl dhafniarqh lgieklldpe dvatacpdkk silmyvtslf

241 qvlpqqvtme airevemlpr hsrvtteehi qvhhqqhfsq eitvnipqrp spspkprfks

301 yayaqtayvi ppdqkrrqvp pqfletvekr tytttvmrse mdldsyqtal eevltwllsa

361 edalqaqgdi ssdvevvkeq fhthegfmme ltahqgrvgn vlqvgsqlla mgklsddeen

421 eiqeqmnlln srweslrvas mekqsnlhki lmdlqnqqla qladwltkte ertkkidsep

481 lgpdledlkr qveehkafqd dleqeqvkvn slthmvvvvd ensgdkataa leeqlqhfgs

541 rwaaicrwte drwvllqdil rkwqhfaeeq clfdawltek egslskiqts dfkdenemlt

601 slrklailkg diemkkqmms klkslsrdll vavknkavaq klesrlenfa qrwdslvqkl

661 esdskqvsqa vtttqtsltq ttvmetvtmv ttreqilvkh akeelppppp hkkrqllvds

721 eirkrfdsdt telhswmtrs eavlqspefa iyrkegnlsd lrervnaiqr ekpekyrklq

781 dasrsaealv eqmvneglna dnirqaseql ksrwiefcql lserlvwley qnsiidfysq

841 lqrleqtait aenwlkaqpt patdpatvki qlekckdeii rmstlqpqie rlkaqsqalk

901 ekeqcpvfld adlaaftshf kqiladmhtr ekqlqtifds lpparykdtv ttilswiqqs

961 etkvsippva vaeyeimeqr lgelkalqss lqeqqkglky lnttvedlsr kapaevsqky

1021 rsevelivgr wkklssqlve hcqkledlmt klqrfqndtk tlkkwmaevd vflkeewpal

1081 gdsealekql eqctalvndi qtiqpslnsv neigkkmkre aepefasria telkdlnaqw

1141 ehicqqahak kaalkggldk tvslrkdlse mhewitqaee eylerdfeyk tpeelqkave

1201 elkrakedam qkevkvklit dsvnnfiaka ppaanealkk eldvlitsyq rlcsrlngkc

1261 ktleevwacw hellsyldae nkwlnevelk lkateniqgg aeeiseslds lerlmrhped

1321 nrnqirelaq tltdggilde lineklekfn trweelqqea vrrqksleqs iqsaqetdkt

1381 lrliqeslaa idkqltayta drvdaaqvpq eaqkiqselt sheisleemk krnrgkesak

1441 rvlsqidvaq kklqdvsmkf rlfqkpanfe qrlqeckril devklqvpkl etksveqevv

1501 qshldhcmkl ykslsevkse vetviktgrq ivqkqqtenp kelderltal klqynelgak

1561 vtekkqelek clklsrklrk einsltewla atdveltkrs avqgmpsnld aeiawgkatr

1621 keiekrqvql knicdlgenl ktvlkgkesl vedklsllns nwiavtsrae ewlnllmeyq

1681 khmeafdqkv anvttwiyra eilldesdkq kpqqkeetlk rlkaelndmh pkvdsvrdqa

1741 vdlmtnrgdh crkviepkls elnhrfaais qriksgkpfi plkeleqfdf diqklleple

1801 veiqqgvnlk eedfnkdmse ddestvkell qrgdtlqkri tderkreeik ikqqllqtkh

1861 nalkdlrsqr rkkaleishq wyqykrqadd lmtwlddiek klaslpdhkd eqklkeigge

1921 lekkkedlna vnrqaerlsk dgaakavept lvqlskrwrd feskfaqfrr lnyaqiqtvl

1981 edttfvmtes mtvettyvps tylaeilqll qalseveerl nspvlqakdc edllkqeecl

2041 knikdclgrl qghidiihsk ktpalqsatp retaniqdkl tqlnsqwekv nkmyrdrqar

2101 fdkskekwrl fhcemksfne wlteteekls raqieagdvg hvktkqflqe lqdgigrqqt

2161 vvktlnvtge eiieqssaad anvlkeqlgn lntrwqeicr qlvekrkrie eeknilsefq

2221 edlnklilwl eetenviaip lepgnedqlr dclgkvklrv eellphkgil krlnetggtt

2281 lgsaslnper khklestlke asrrllkvsr dlpekqkeie illkdfieln qqinqltlwi

2341 tpvknqlely nqvgqpgafd iketeaavqa kqpnveevls kgchlykekp athpvkkkle

2401 dlnadwkain hlilqlkekp tfgepaltsp gvltsgqtva vdtqarvtke ttsftpemps

2461 svllevpala dfnkawaelt dwlsrldrei kaqrvtvgdl ddindmiikq kanmqdleqr

2521 rpqldelita aqnlknktsn qeartiitdr iekiqsqwdd vhgylqnrrq qlhemqkdst

2581 qwleakqeae qvleqakakl eswkeisytv ealkkqnsel kqfskeirqw qmniegvndv

2641 alkpvrdysa ddtrkvelmt dninatwati nkrvsereaa lesallmlqe fyldlekfla

2701 wlteaettan vlqdathkek tledpqmvre lmkqwqdlqa eidahtdifh nldengqkil

2761 rslegsedav llqrrldnmn frwselrkks lnirshleas tdqwkrlhls lqellawlql

2821 kedelkqqap iggdiptvqk qndvhrtfkr elktkepvim naletvrlfl adqpveglek

2881 vypeprdlsp eeraqnvtkv lrrqaddvrt ewdklnlrsa dwqkkiddal erlqglqeam

2941 deldlklrqa eafkgswqpv gdllidslqd hlekvkvyra emvplkekvh qvnelahrfa

3001 ppdiqlspyt lscledlntr wkvlqvaide rirqlheahr dfgptsqhfl ttsvqgpwer

3061 aispnkvpyy inhetqttcw dhpkmtelyq sladlnnvrf sayrtamklr rlqkalcldl

3121 lnlsaacdal dqhnlkqndq pmdilqiinc lttiydrleq ehnnlvnvpl cvdmclnwll

3181 nvydtgrtgr irvlsfktgv vslckahled kyrylfkqva sstgfcdqrr lglllhdsiq

3241 iprqlgevas fggsniepsv rscfqfannk peieaalfld wmrlepqsmv wlpvlhrvaa

3301 aetakhqakc nickecpiig fryrslkhfn ydicqscffs grvakghkmh ypmveyctpt

3361 tsgedvrdfa kvlknkfrtk ryfakhprmg ylpvqtvleg dnmetpvtli nfwpvdsala

3421 emensngsyl ndsispnesi ddehlliqhy cqslnqespl sqprspaqil isleseerge

3481 leriladlee enrnlqaeyd rlkqqhdhkg lsplpsppem mpvspqsprd aeliaeakll

3541 rqhkgrlear mqiledhnkq lesqlhrlrq lleqpqadak vngttlssps tslqrsdssq

3601 pmllrvvgsq tsetmgeddl lsppqdtstg leevmeqlnn sfpssrgrna pgkpvreatm

You can also try

Mouse Dystrophin (Mus musculus) (NP\_031894.1)

1 mlwweevedc yeredvqkkt ftkwinaqfs kfgkqhidnl fsdlqdgkrl ldllegltgq

61 klpkekgstr vhalnnvnka lrvlqknnvd lvnigstdiv dgnhkltlgl iwniilhwqv

121 knvmktimag lqqtnsekil lswvrqstrn ypqvnvinft sswsdglaln alihshrpdl

181 fdwnsvvsqh satqrlehaf niakcqlgie klldpedvat typdkksilm yitslfqvlp

241 qqvsieaiqe vemlprtssk vtreehfqlh hqmhysqqit vslaqgyeqt ssspkprfks

301 yaftqaayva tsdstqspyp sqhleaprdk sldsslmete vnldsyqtal eevlswllsa

361 edtlraqgei sndveevkeq fhahegfmmd ltshqglvgn vlqlgsqlvg kgklsedeea

421 evqeqmnlln srweclrvas mekqsklhkv lmdlqnqklk elddwltkte ertkkmeeep

481 fgpdledlkc qvqqhkvlqe dleqeqvrvn slthmvvvvd essgdhataa leeqlkvlgd

541 rwanicrwte drwivlqdil lkwqhfteeq clfstwlsek edamkniqts gfkdqnemms

601 slhkistlki dlekkkptme klsslnqdll salknksvtq kmeiwmenfa qrwdnltqkl

661 ekssaqisqa vtttqpsltq ttvmetvtmv ttreqimvkh aqeelppppp qkkrqitvds

721 elrkrldvdi telhswitrs eavlqssefa vyrkegnisd lqekvnaiar ekaekfrklq

781 dasrsaqalv eqmanegvna esirqaseql nsrwtefcql lservnwley qtniitfynq

841 lqqleqmttt aenllktqst tlseptaiks qlkickdevn rlsalqpqie qlkiqslqlk

901 ekgqgpmfld adfvaftnhf nhifdgvrak ekelqtifdt lppmryqetm ssirtwiqqs

961 esklsvpyls vteyeimeer lgklqalqss lkeqqngfny lsdtvkemak kapseicqky

1021 lsefeeiegh wkklssqlve scqkleehmn klrkfqnhik tlqkwmaevd vflkeewpal

1081 gdaeilkkql kqcrllvgdi qtiqpslnsv neggqkikse aelefasrle telrelntqw

1141 dhicrqvytr kealkagldk tvslqkdlse mhewmtqaee eylerdfeyk tpdelqtave

1201 emkrakeeal qketkvkllt etvnsviaha ppsaqealkk eletlttnyq wlctrlngkc

1261 ktleevwacw hellsyleka nkwlnevelk lktmenvpag peeitevles lenlmhhsee

1321 npnqirllaq tltdggvmde lineeletfn srwrelheea vrkqklleqs iqsaqeieks

1381 lhliqeslef idkqlaayit dkvdaaqmpq eaqkiqsdlt sheisleemk khnqgkdanq

1441 rvlsqidvaq kklqdvsmkf rlfqkpanfe qrleeskmil devkmhlpal etksveqevi

1501 qsqlshcvnl ykslsevkse vemviktgrq ivqkkqtenp keldervtal klhynelgak

1561 vterkqqlek clklsrkmrk emnvltewla atdteltkrs avegmpsnld sevawgkatq

1621 keiekqkahl ksvtelgesl kmvlgkketl vedklsllns nwiavtsrve ewlnllleyq

1681 khmetfdqni eqitkwiiha delldesekk kpqqkedilk rlkaemndmr pkvdstrdqa

1741 aklmanrgdh crkvvepqis elnrrfaais hriktgkasi plkeleqfns diqklleple

1801 aeiqqgvnlk eedfnkdmse dnegtvnell qrgdnlqqri tderkreeik ikqqllqtkh

1861 nalkdlrsqr rkkaleishq wyqykrqadd llkcldeiek klaslpeprd erklkeidre

1921 lqkkkeelna vrrqaeglse ngaamavept qiqlskrwrq iesnfaqfrr lnfaqihtlh

1981 eetmvvtted mpldvsyvps tylteishil qalsevdhll ntpelcakdf edlfkqeesl

2041 knikdnlqqi sgridiihkk ktaalqsats mekvkvqeav aqmdfqgekl hrmykerqgr

2101 fdrsvekwrh fhydmkvfnq wlneveqffk ktqnpenweh akykwylkel qdgigqrqav

2161 vrtlnatgee iiqqssktdv nilqeklgsl slrwhdicke laerrkriee qknvlsefqr

2221 dlnefvlwle eadniaitpl gdeqqlkeql eqvkllaeel plrqgilkql netggavlvs

2281 apirpeeqdk lekklkqtnl qwikvsralp ekqgelevhl kdfrqleeql dhlllwlspi

2341 rnqleiynqp sqagpfdike ievtvhgkqa dverllskgq hlykekpstq pvkrkledlr

2401 seweavnhll relrtkqpdr apglsttgas asqtvtlvtq svvtketvis klempsslll

2461 evpaladfnr awteltdwls lldrviksqr vmvgdledin emiikqkatl qdleqrrpql

2521 eelitaaqnl knktsnqear tiitdrieri qiqwdevqeq lqnrrqqlne mlkdstqwle

2581 akeeaeqvig qvrgkldswk egphtvdaiq kkitetkqla kdlrqrqisv dvandlalkl

2641 lrdysaddtr kvhmitenin tswgnihkrv seqeaaleet hrllqqfpld lekflswite

2701 aettanvlqd asrkeklled srgvrelmkp wqdlqgeiet htdiyhnlde ngqkilrsle

2761 gsdeapllqr rldnmnfkws elqkkslnir shleassdqw krlhlslqel lvwlqlkdde

2821 lsrqapiggd fpavqkqndi hrafkrelkt kepvimstle tvriflteqp legleklyqe

2881 prelppeera qnvtrllrkq aeevnaewdk lnlrsadwqr kidealerlq elqeaadeld

2941 lklrqaevik gswqpvgdll idslqdhlek vkalrgeiap lkenvnrvnd lahqlttlgi

3001 qlspynlstl edlntrwrll qvavedrvrq lheahrdfgp asqhflstsv qgpweraisp

3061 nkvpyyinhe tqttcwdhpk mtelyqslad lnnvrfsayr tamklrrlqk alcldllsls

3121 aacdaldqhn lkqndqpmdi lqiincltti ydrleqehnn lvnvplcvdm clnwllnvyd

3181 tgrtgrirvl sfktgiislc kahledkyry lfkqvasstg fcdqrrlgll lhdsiqiprq

3241 lgevasfggs niepsvrscf qfannkpeie aalfldwmrl epqsmvwlpv lhrvaaaeta

3301 khqakcnick ecpiigfryr slkhfnydic qscffsgrva kghkmhypmv eyctpttsge

3361 dvrdfakvlk nkfrtkryfa khprmgylpv qtvlegdnme tpvtlinfwp vdsapasspq

3421 lshddthsri ehyasrlaem ensngsylnd sispnesidd ehlliqhycq slnqdsplsq

3481 prspaqilis leseergele riladleeen rnlqaeydrl kqqhehkgls plpsppemmp

3541 tspqsprdae liaeakllrq hkgrlearmq iledhnkqle sqlhrlrqll eqpqaeakvn

3601 gttvsspsts lqrsdssqpm llrvvgsqts esmgeedlls ppqdtstgle evmeqlnnsf

3661 pssrgrnapg kpmredtm

Fruit Fly dystrophin isoform I(Drosophila melanogaster) (NP\_001262730.1)

1 mhdpsdydsv yseedfvdtv rgaatpplmd yeefrvktmd erqhiqkktf tkwinshlid

61 tqctpvkdlf ldlrdghrll allstltqtn lkpekgrmrv hhinnlnkvi teiqqhgvkl

121 vnissddivg gnakltlgli wlialefngq hlvkshssng veksllawar qytephglql

181 ndfssswsdg raflmildah veelnlqaal qqhalkrlhl afdlahrhfk ieklldaedv

241 hthkpdnksi qmyvmclyha mesmrtrqqe qeqdegqdqd pgrvpctsit dldevpldnd

301 qtslglytsd sagsmeqrss gelkthsmrp lstatnasve isgyqsalea vltllledeq

361 llsqnlpdpq dfqtaklqfh enesfmlklt ehqeyvgeal eegsnlines qkagaglsqe

421 dqnevrqqmv llnerwetlr lraldvqaki lmrlaefqkq kleqlrqflt svedrishms

481 digptleeae kqlleaqklk adlseqqelv dslssmvviv ndtsgnfndl edrlsalger

541 wshvvkwsdl rkeklqqykc isrwldareq dlklmesrdv tdvggitqri nelnycakdl

601 lelqrylidl rqmvaatlqd gddkgervli qlesyedrld alkqivevqt vrietkgfnf

661 grdrasydds rvvrpegwvd yqmiirfged dsqedddehd laskkrklrn adnfnalenh

721 imehfgyvqe veqklqqlqr qslrqqcell kelqaensrr cgtlpelkkl yevceledps

781 rnllleethi kqleqryanl sqklssqqse shtllakeky ynsltgfklv ladsrdwykq

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901 aliqqrgges lsrqlkqiqd fvtkvsnqkv rvsnlevmqe qqhflnqlld emeslrltyd

961 nipkhligee lqtawnrlpe qlnervikqt taienlnhfa aeynaiiaml rsaadsklng

1021 sdgassqdlr kleidvisar nfseilikea epaqkeslqs qiralntlyd qveqvhrekk

1081 eqqtvlqshi dliqlrlket dqwltdlesn tpksgisdiv nsnelfqsks rfqtlketce

1141 rettqfrdln erggelllqm delqdqdres rygslakqft rinarwtevt elvyaktall

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1261 dkiqeignel idnefmadsi rrdidetvqr wtqlqqqakk rtelleqkvs eaeqsekciv

1321 qfekwltrvd dilsdhldnd vtivdqpeef qrlahefvan eknfkeisel idehtrngkv

1381 gaanrlqeql nlmevrfkyc qaklskctai qhsyesrlnr aytdlrnver stevvdvasa

1441 gpntvqtqyq kclqiyrtls eikseiesti ktgrrvcedr ytkspkqlsq ridalkhlyn

1501 tlgenvtqsk atlerlltla rqleecfdsa dnlirrfesp qevhdrnsil lefedvlrrc

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1741 tlisqgdslv lethgrqgsi srlvmrtqii lreqfrevqq arsktsgsga pappldsvni

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1861 mmneiektkn nliahadsie lsltelrngp risngkerpd assaatmscr seynnepsgt

1921 galagsfdks vlqisdwltw eqnmikiqsv lvddgdavrl aiekqekvlr elkmkkpqln

1981 elvhtaevlk gdvkrqqlqe kvtrlrehwd etsqcvlqra aqlknmlsds qrfeakrlel

2041 ekwlarmeqr aermgtiatt adileaqqke qksfhaelhq nkqhfdifne ltqkliavyp

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2221 rwnnlksksi airnrlesns ehwnalllsl reltewvirk dtelstlglg pvrgdavslq

2281 kqlddhkafr rqledkrpiv esnltsgrqy ianeaavsdt sdteanhdsd srymsaeeqs

2341 reltrsirre vgklseqwnn lidrsdnwkh rldeymtpqs vsvvseilis ntlkkmrqfq

2401 kiledlssrv alaeqtktsw lppssvgean eqmqqlqrlr dkmttasall ddcneqqsff

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